Division of Environment
Curtis State Office Building
1000 SW Jackson St., Suite 400
Topeka, KS 66612-1367

Kansas
Department of Health & Environment

Phone: 785-296-1535
Fax: 785-296-8464
www.kdheks.gov

Robert Moser, MD, Secretary

Sam Brownback, Governor

May 23, 2014

Mr. Paul Roemerman
U.S. EPA Region VII, Superfund Division
11201 Renner Boulevard
Lenexa, Kansas 66219

RE: Electronic Documents for the Standard Products/West Kellogg Site, Wichita, Sedgwick County, Kansas
KDHE I.D. # C2-087-72515
EPA I.D. # KSN000706571

Dear Mr. Roemerman:

Enclosed are the electronic documents for the Preliminary Assessment of the Standard Products/West Kellogg site in Wichita, Sedgwick County, Kansas. If you have any questions, please feel free to contact me at (785) 296-8065.

Sincerely,

Randolph L. Brown, P.G.
Unit Chief, Site Assessment Unit
Remedial Section
Bureau of Environmental Remediation

rlb/Attachments

c: Site File -> **C2-087-72515**
Site Decision Files

1.0

ES

0400

Curtis State Office Building
1000 SW Jackson, Suite 410
Topeka, Kansas 66612-1367

Kansas Department of Health and Environment

Preliminary Assessment

Standard Products/ West Kellogg Wichita, Kansas (C2-087-72515)

Bureau of Environmental Remediation

Our Mission: To protect and improve the health and environment of all Kansans

Preliminary Assessment

Standard Products/West Kellogg Site

Wichita, Kansas

Prepared by:
Kansas Department of Health and Environment
Bureau of Environmental Remediation
Remedial Section
Site Assessment Program

Date: March 2014

State ID: C2-087-72515
EPA ID: KSN000706571

Project Manager: Jon Vopata, Environmental Scientist III

Field Team Members:
Mike LaBuda, Environmental Technician IV

TABLE OF CONTENTS

1.0 Introduction

This document presents the findings of a Preliminary Assessment (PA) conducted by the Kansas Department of Health and Environment (KDHE) at the Standard Products/West Kellogg site in Wichita, Kansas. The assessment was conducted as part of continuing cooperative agreement with the United States Environmental Protection Agency (EPA) to perform investigations of selected sites to evaluate potential or actual releases of hazardous substances, pollutants, or contaminants in Kansas. These investigations are performed under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986 and consistent with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) 40 CFR § 300.400-300.425.

This PA was initiated by the KDHE Bureau of Environmental Remediation in response to the discovery of tetrachloroethylene (PCE) in groundwater. The purpose of this PA is to determine the source of contaminants, collect sufficient information to assess the threat posed to human health and the environment, and to determine the need for further action under CERCLA/SARA consistent with the NCP. The investigation included the collection of water samples from drinking water wells and evaluation of the site using the Hazard Ranking System (HRS) guidance. The Standard Products/West Kellogg site has the EPA ID #KSN000706571.

2.0 Site Information

2.1 Site Location and Description

The Standard Products/West Kellogg site is located at 7920 W. Kellogg Street in Wichita, Sedgwick County, Kansas. The property is within the northeast quarter of Section 28, Township 27 South, Range 1 West. The geographical coordinates for the property are latitude 37.673344° North, longitude -97.433751° West. Surrounding properties include commercial businesses to the west, east, and south, and residences to the northwest.

2.2 Site Background

In December 2009 KDHE conducted a Unified Focused Assessment (UFA) of the Standard Products/West Kellogg site. The UFA was conducted through an initiative to assess former radium dial shop sites in Kansas. Groundwater samples were collected from two locations on the property. The background sample (SP-2) to the north indicated PCE at 8.1 micrograms per liter (ug/L), slightly exceeding the EPA maximum contaminant level (MCL) and KDHE Tier 2 Risk-based Standards for Kansas (RSK) level of 5 ug/L. No other contaminants were identified at concentrations exceeding MCLs or RSK. Radium-226 was not detected above background levels.

In March 2013 KDHE conducted a Site Evaluation of the Standard Products/West Kellogg site. Groundwater samples were collected from seven locations upgradient (northwest) of the subject property. One sample collected upgradient of the subject property (SE-5) indicated PCE at 7.4 ug/L, exceeding MCL and RSK (Reference 1).

2.3 Hazardous Substance Characteristics

Along with dry cleaning and parts degreasing, PCE has additional applications in making other chemicals and in some consumer products. Exposure to high doses can cause dizziness, headaches, sleepiness, confusion, nausea, difficulty in speaking and walking, unconsciousness, and death. Kidney and liver damage can also result from high exposures. PCE is reasonably assumed to be a carcinogen. Humans can generally detect PCE at concentrations of one part per million in air. PCE is nonflammable at room temperature, evaporates easily, and has a sharp, sweet odor (Reference 2).

3.0 Assessment Activities

3.1 Groundwater Sample Collection

On February 19-20, 2014, Mike LaBuda of KDHE conducted a door-to-door survey of residential properties from the intersection of Topaz and University north-northwest to the intersection of Tyler and Central. Figure 4 depicts the approximately 75 residential properties surveyed. During the survey Mr. LaBuda identified and sampled three drinking water wells (Monroe residence at 131 N. Socora, Anderson residence at 143 N. Evergreen, and Stover residence at 142 N. Evergreen). Residents along Robin, Evergreen, and Socora indicated to Mr. LaBuda that there were no public water supply lines on these streets and residents in the area primarily relied on domestic wells for drinking water. On February 25, 2014, Kyle Parker sampled three additional drinking water wells in the survey area (Emprise Bank Trust residence at 261 N. Robin, Nibarger residence at 241 N. Robin, and Brown residence at 215 S. Socora).

The drinking water well samples were collected from spigots on the outside of the houses after allowing the spigots to flow for approximately five minutes. Water samples were collected directly into acidified 40 milliliter vials under low flow conditions. Samples were transported to Kansas Department of Health and Environmental Laboratories for analysis of volatile organic compounds by EPA method 8260.

3.2 Soil Sample Collection

No soil samples were collected during the PA.

3.3 Analytical Results

PCE was reported in drinking water well samples collected from 143 N. Evergreen, 142 N. Evergreen, 241 N. Robin, and 215 S. Socora at concentrations of 554.4 ug/L, 182.4

ug/L, 8.0 ug/L, and 1.5 ug/L, respectively. PCE was not detected in groundwater samples collected at 131 N. Socora or 261 N. Robin. The samples collected from 143 N. Evergreen, 142 N. Evergreen, and 241 N. Robin exceeded both the MCL and RSK for PCE.

Trichloroethylene (TCE) was reported in drinking water well samples collected from 143 N. Evergreen and 142 N. Evergreen at concentrations of 19.3 ug/L and 1.0 ug/L, respectively. TCE was not detected in groundwater samples collected at 131 N. Socora, 261 N. Robin, 241 N. Robin, or 215 S. Socora. The sample collected from 143 N. Evergreen exceeded both the MCL and RSK for TCE.

Cis 1,2-Dichloroethylene (cis 1,2-DCE) was reported in drinking water well samples collected from 143 N. Evergreen and 142 N. Evergreen at concentrations of 19 ug/L and 0.9 ug/L, respectively. Cis 1,2-DCE was not detected in groundwater samples collected at 131 N. Socora, 261 N. Robin, 241 N. Robin, or 215 S. Socora. All reported concentrations of cis 1,2-DCE were below MCL and RSK.

Chloroform was reported in the drinking water well sample collected from 142 N. Evergreen at a concentration of 0.9 ug/L, below the MCL and RSK. Chloroform was not reported in any other drinking water well samples.

Methyl Tert-Butyl Ether (MTBE) was reported in the drinking water well sample collected from 143 N. Evergreen at a concentration of 1.7 ug/L, below the MCL and RSK. MTBE was not reported in any other drinking water well samples.

Water sample results are summarized in Table 1 and Figure 4.

3.4 Quality Assurance Procedures

A Quality Assurance Project Plan (QAPP) was developed for the site by completing a site-specific addendum to the Site Assessment Program's generic QAPP. All samples were collected in accordance with appropriate standard operating procedures.

4.0 Groundwater Pathway

4.1 Site Geology

The site is located within the Arkansas River Lowlands section of the Central Lowland Physiographic Province. The topography of the province is characterized by the broad, flat valley of the Arkansas River and the gently rolling slopes that rise to the uplands adjacent to the valley (Reference 3).

Soil at the property is classified as Canadian complex. This complex consists of deep, well drained, moderately rapidly permeable soils on alluvial terraces. The silt loam soils

(slopes ranging zero to three percent) are well-drained soils occurring in floodplains formed from alluvial parent material (Reference 3).

The site is near the center of the broad 4-mile wide alluvial valley of the Arkansas River. This alluvial valley is comprised of unconsolidated sediments-terrace deposits of Illinoisan age of the Pleistocene epoch. The unconsolidated sediments consist of bedded sand, silt, and clay deposits of varying thickness and composition. The unconsolidated deposits are underlain by shale bedrock of the Wellington Formation (Permian age). The unconsolidated deposits/Wellington Formation contact is approximately 150 feet below ground surface (bgs) (Reference 4).

The terrace deposits of unconsolidated sediment within the Arkansas River valley make up the principal aquifer of the site. Groundwater is generally encountered at 30 feet bgs. Groundwater flow direction is south-southeast. The less permeable Wellington Formation is the lower boundary of the alluvial aquifer (Reference 4).

4.2 Groundwater Targets

The groundwater exposure pathway under the HRS is evaluated in part by calculating the number of residents, students, and workers served by water wells located within four miles of the site and determining whether these people are actually or potentially exposed to hazardous substances (Reference 5).

Water well surveys were distributed to approximately 75 residences; only 6 residences responded. The six responding residences are not connected to a public water supply and rely on private wells for drinking water. Residents surveyed indicated the properties along Robin, Evergreen, and Socora are on private drinking water wells. Residents along other streets may also be drinking water from private wells.

The water well survey and drinking water results identified ten Level I drinking water targets and four Level II drinking water targets.

A search of the Kansas Geological Survey water well record (form WWC-5) database identified: 171 domestic wells within a quarter mile of the site, 256 domestic wells between one quarter mile and one half mile from the site, 423 domestic wells between one half mile and one mile from the site, 1,634 domestic wells between one and two miles from the site, 2,806 domestic wells between two and three miles from the site, and 3,942 domestic wells between three and four miles from the site. This estimate of groundwater targets is limited by the WWC-5 database, which only contains records of wells drilled since 1975 (Reference 6).

The KDHE Public Water Supply (PWS) database identified: zero PWS wells within two miles of the site, four City of Goddard PWS wells serving an estimated population of 4,532 located between two and three miles from the site, two Sedgwick County Rural Water District #4 wells serving an estimated population of 1,626 located between two and three miles from the site, one Eberly Farm, Inc., well serving an estimated population

of 200 located between three and four miles from the site, two Occidental Chemical Corporation wells serving an estimated population of 190 located between three and four miles from the site, one Dusti's Place LLC well serving an estimated population of 65 located between three and four miles from the site, and three City of Wichita PWS wells serving an estimated population of 19,712 located between three and four miles from the site (Reference 7).

City of Wichita 2012 census data indicates the population of Wichita is 385,577 persons. There are an estimated 2.49 persons per household. The estimated population density is 2,400 people per square mile. The total distance-weighted population of potential groundwater contamination targets within four miles of the site is calculated to be approximately 5,736 (Reference 5, 8).

4.3 Groundwater Pathway Conclusions

The groundwater pathway is the primary pathway of concern. There have been ten Level I drinking water targets, four Level II drinking water targets, and 5,736 potential (distance-weighted) drinking water targets identified. There are potentially impacted private wells identified within the area of groundwater contamination that should be sampled during the Site Inspection (SI).

5.0 Surface Water Pathway

5.1 Hydrologic Settings

The site is located approximately 1.5 miles west of the Wichita Valley Center Flood Control Canal and approximately four miles west of the Arkansas River. Overland drainage is controlled by curbs and gutters that direct drainage to a municipal storm sewer.

No probable point of entry to the Arkansas River was established for this assessment because the overland flow segment of the HRS surface water pathway does not appear to be a threat.

5.2 Surface Water Targets

The surface water exposure pathway under HRS is evaluated in part by calculating the number of residents, students, and workers served by surface water intakes within 15 miles downstream of the site and whether these people are actually or potentially exposed to hazardous substances. No drinking water intakes were identified within 15 miles downstream of the site.

The Arkansas River is used for recreational fishing. Numerous wetlands are within 15 miles downstream of the site. No other sensitive environments were identified.

5.3 Surface Water Pathway Conclusions

There are no indications of a release of PCE to surface water at the site. Given the location of the site relative to the Arkansas River and the migration pathway of the PCE contaminated groundwater, contaminated groundwater flow into the Arkansas River is unlikely.

6.0 Soil Exposure and Air Pathways

6.1 Physical Conditions

Properties upgradient (northwest) of 7920 W. Kellogg are primarily residential. There are commercial properties located around W. Central Avenue and N. Tyler Road approximately 1.5 miles north-northwest.

6.2 Soil Exposure and Air Pathway Targets

The soil exposure pathway under HRS assesses the risks associated with existing surficial contamination (0-2 feet below surface) at properties on which people live or work. No soil samples were collected during the assessment of the site. The outdoor air exposure pathway is considered low due to the degradation and rapid dispersion of PCE in the atmosphere. There is a potential for indoor air exposure via vapor intrusion from contaminated soil or groundwater.

6.3 Soil Exposure and Air Pathway Conclusions

The soil exposure and air pathways appear to pose a minimal threat at the site. The air pathway under HRS addresses outside air only, but indoor air contamination from vapor intrusion of contaminated soil and groundwater may be impacting residential properties.

7.0 Summary and Conclusions

In December 2009 KDHE conducted a UFA of the Standard Products/West Kellogg site. PCE was detected at concentrations slightly exceeding the MCL and RSK in groundwater samples collected at 7920 W. Kellogg Street. Radium-226 was not detected above background levels.

In March 2013 KDHE conducted a SE at the Standard Products/West Kellogg site. PCE was detected above the MCL and RSK in one groundwater sample collected at the intersection of Topaz and University Street.

In February 2014 Mike LaBuda conducted a door-to-door survey of residential properties from the intersection of Topaz and University north-northwest to the intersection of Tyler and Central. During the survey six drinking water wells were identified and sampled.

PCE was detected in four drinking water wells; three drinking water wells exceeded the MCL and RSK for PCE. TCE was detected in two drinking water wells; one drinking water well exceeded the MCL and RSK for TCE. The survey and analytical results identified ten level one drinking water targets and four level two drinking water targets.

Residents surveyed indicated properties along Robin, Evergreen, and Socora use private drinking water wells. Residents along other streets may also be drinking water from private wells.

PCE and TCE have been detected in drinking water wells at concentrations exceeding the MCL and RSK levels. The source(s) of contamination have not been identified and there are likely additional impacted drinking water wells. Therefore, a higher-priority SI consistent with §300 of the NCP is recommended for the Standard Products/West Kellogg site.

8.0 References

(1) Kansas Department of Health and Environment, Bureau of Environmental Remediation, Remedial Section. Standard Products/West Kellogg site file, C2-087-72515. January 2014.

(2) Agency for Toxic Substances and Disease Registry. Accessed February 18, 2014 from http://www.atsdr.cdc.gov/

(3) United States Department of Agriculture Soil Conservation Service, in cooperation with Kansas Agricultural Experiment Station. *Soil Survey of Sedgwick County, Kansas*. 1979.

(4) Lane, C.W., and Miller, D.E. *Geohydrology of Sedgwick County, Kansas,* Bulletin 176, Kansas Geological Survey, University of Kansas Publications; Lawrence, Kansas. 1965.

(5) United States Environmental Protection Agency, November 1992, The Hazard Ranking System Guidance Manual, Publication 9345.1-07.

(6) Water well completion records form, WWC-5, available at: http://www.kgs.ku.edu/. Accessed February 2014.

(7) Kansas Department of Health and Environment, Bureau of Water, Public Water Supply (PWS) Database. Accessed internally February 2014.

(8) United States Census Bureau. *City of Wichita Quickfacts from the U.S. Census Bureau.* Retrieved February 2014 from http://quickfacts.census.gov/qfd/states/20/2079000.html

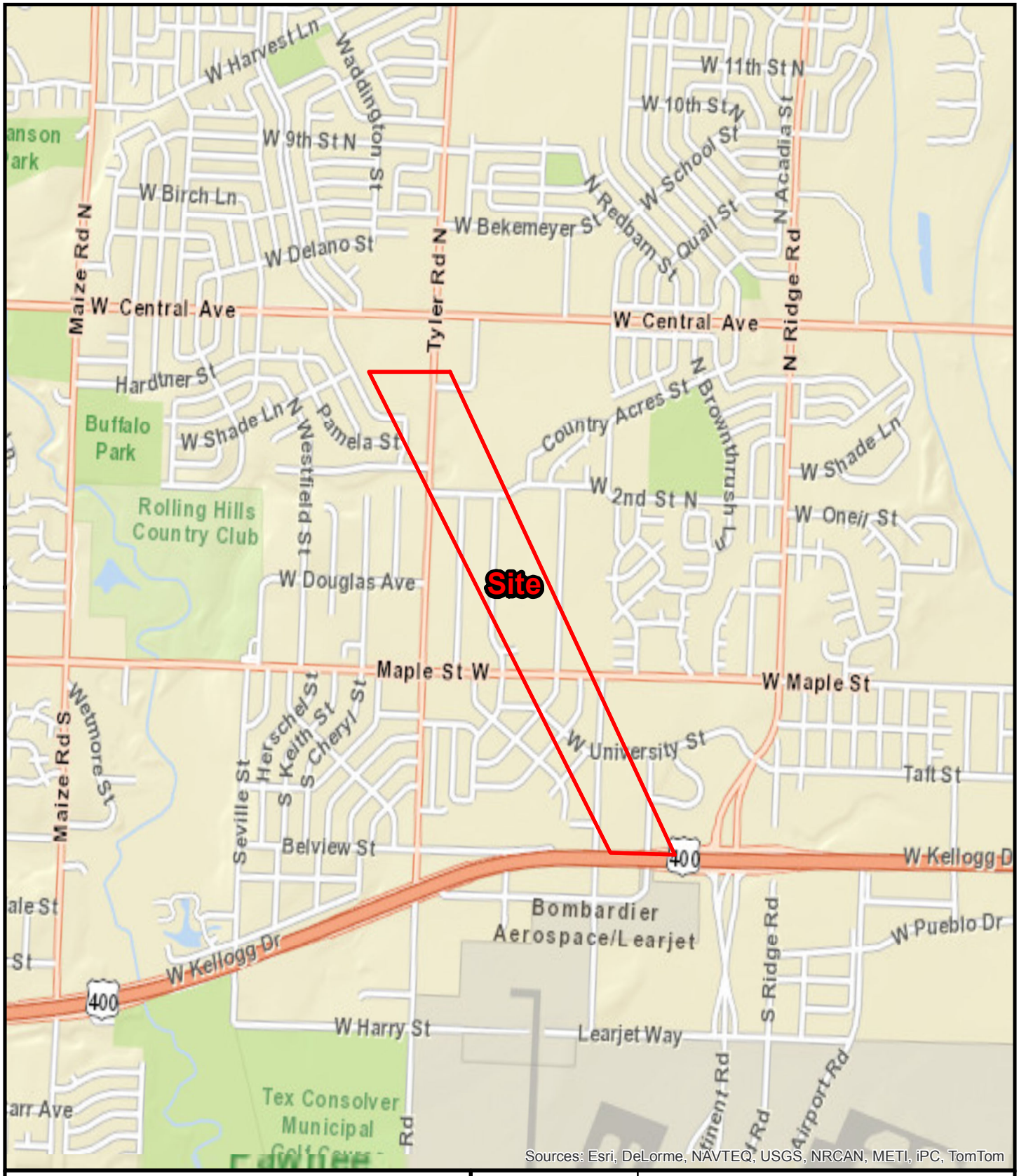
9.0 Appendices

9.1 Figures and Tables

Table 1: Standard Products/West Kellogg - Analytical Results
Project Phase: Preliminary Assessment
Standard Products/West Kellogg - Wichita, KS
KDHE Project Code: C2-087-72515

Property	Address	Date Collected	Tetra-chloro-ethylene (PCE)	Tri-chloro-ethylene (TCE)	cis 1,2-Dichloro-ethylene (cis 1,2-DCE)	Chloro-form	Methyl tert-Butyl Ether (MTBE)	Number of Residents Drinking Water
RSK: GW Pathway / EPA: MCL			**5.0 / 5.0**	**5.0 / 5.0**	**70 / 70**	**80 / 80**	**133 / NE**	
Monroe Residence	131 N. Socora	2/19/14	<0.5	<0.5	<0.5	<0.5	<0.5	3
Anderson Residence	143 N. Evergreen	2/19/14	**554**	**19.3**	19.0	<0.5	1.7	5
Stover Residence	142 N. Evergreen	2/19/14	**182**	1.0	0.9	0.9	<0.5	3
Emprise Bank Trust	261 N. Robin	2/25/14	<0.5	<0.5	<0.5	<0.5	<0.5	2
Nibarger Residence	241 N. Robin	2/25/14	**8.0**	<0.5	<0.5	<0.5	<0.5	2
Brown Residence	215 S. Socora	2/25/14	1.5	<0.5	<0.5	<0.5	<0.5	4

Notes: All concentrations provided in micrograms per liter (ug/L)
RSK Residential Risk-based Standards for Kansas
EPA: MCL - Environmental Protection Agency; Maximum Contaminant Level
NE - Not Established
Bold values exceed RSK and MCL
Analytical results reported by Kansas Department of Health and Environmental Laboratories



N

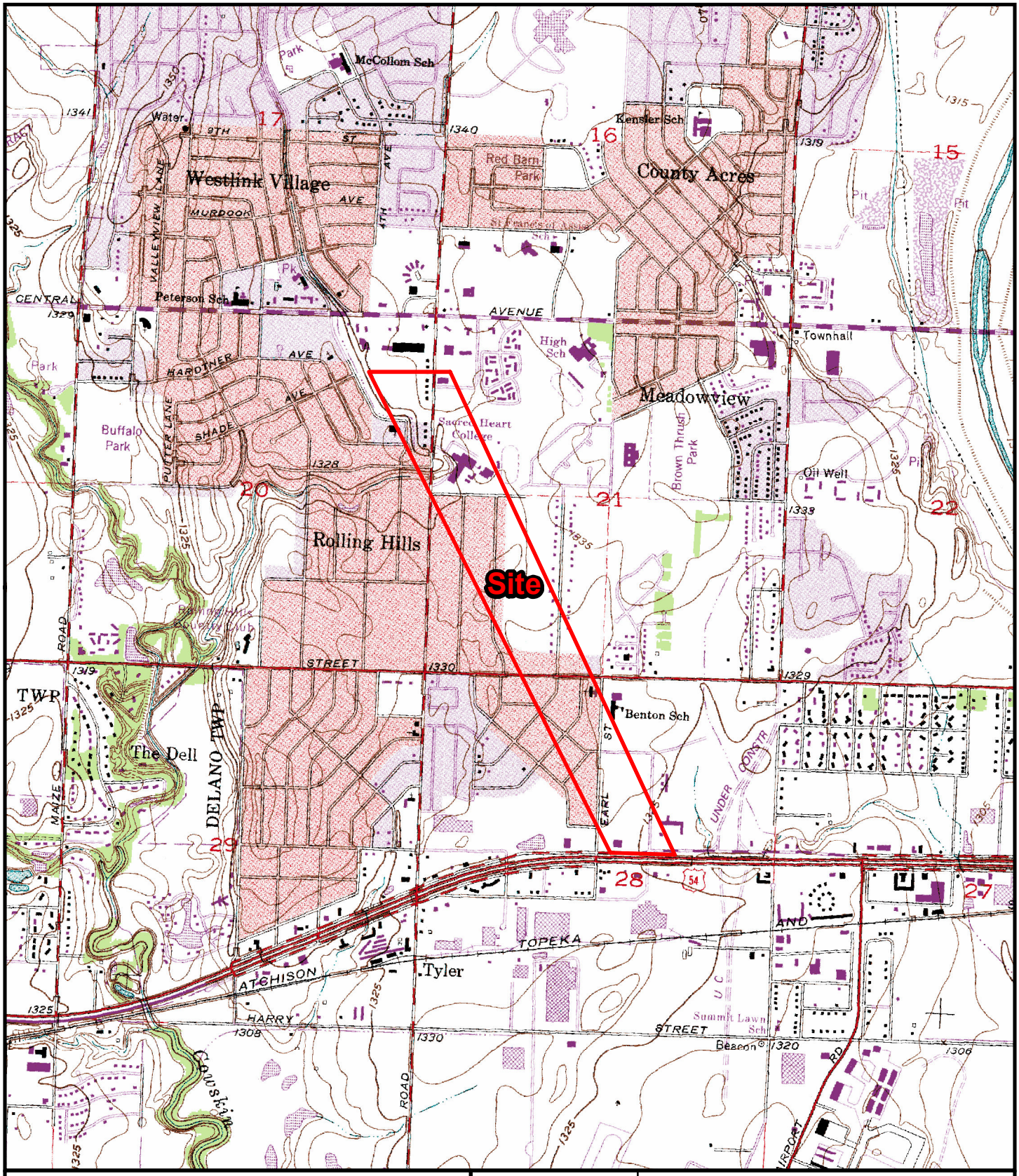
Sedgwick County

0 0.25 0.5 1

Miles

Kansas Department of Health and Environment

SITE: **Standard Products/West Kellogg**				
TITLE: **Area Map**				
PROJECT PHASE:		Preliminary Assessment		
DRAWN BY:	JV	2/25/14	BASEMAP DATE:	2008
CHECKED BY:	JV	2/25/14	**Figure 1**	



Sedgwick County

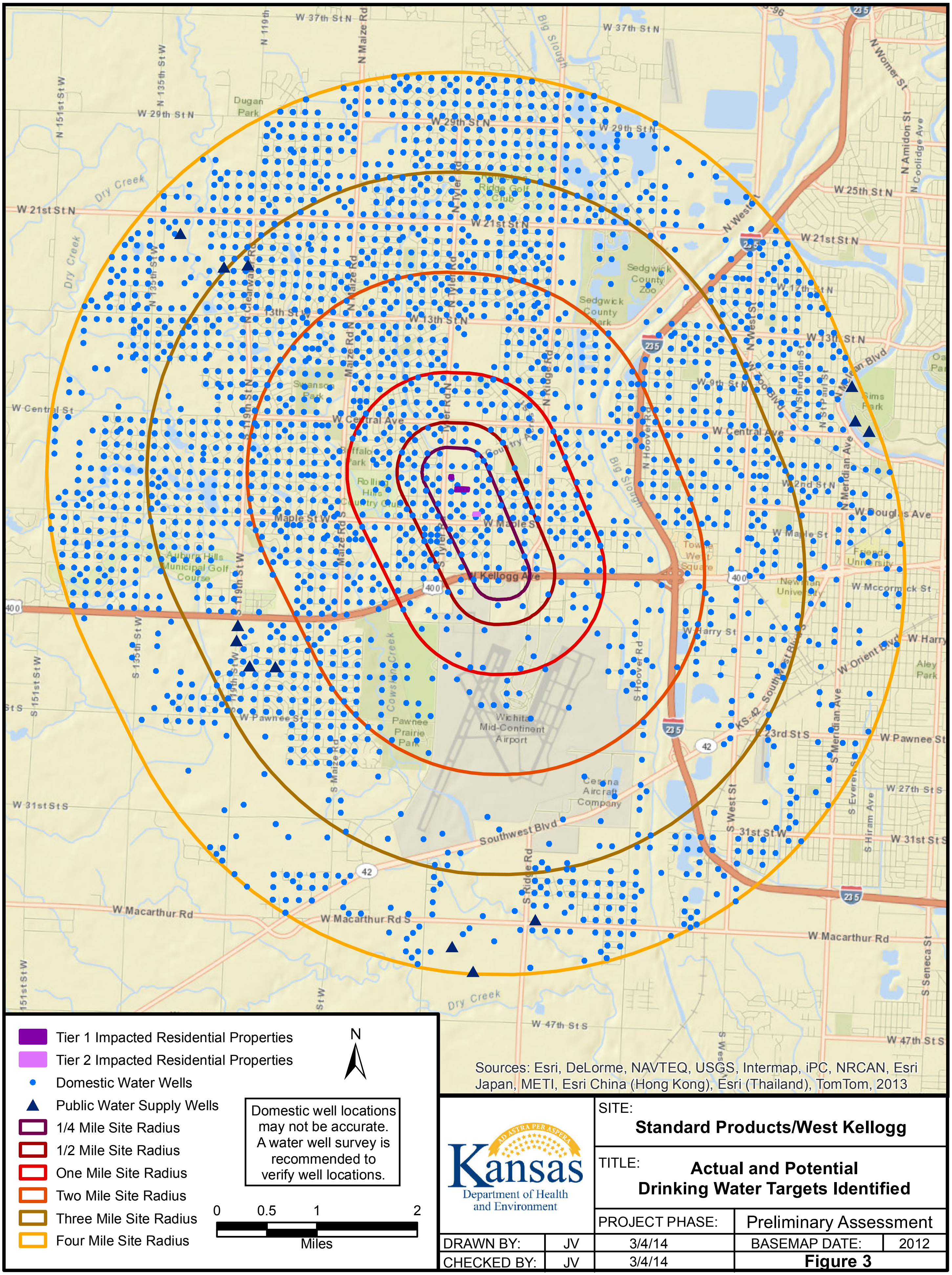
N

0 0.25 0.5 1

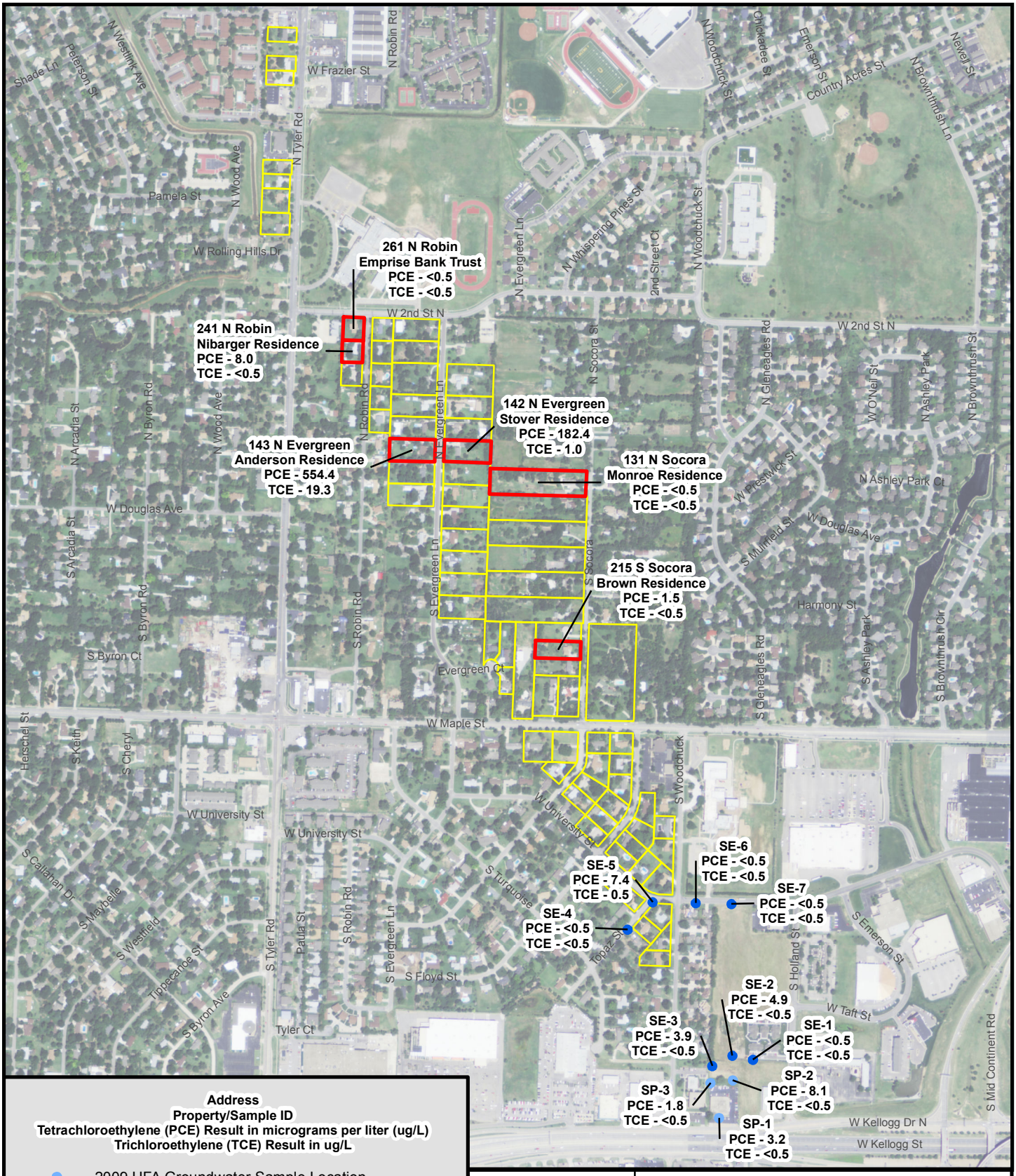
Miles

Kansas Department of Health and Environment

SITE:	**Standard Products/West Kellogg**			
TITLE:	**Topographic Map**			
PROJECT PHASE:	Preliminary Assessment			
DRAWN BY:	JV	2/25/14	BASEMAP DATE:	Unknown
CHECKED BY:	JV	2/25/14	**Figure 2**	



SITE:	Standard Products/West Kellogg		
TITLE:	Actual and Potential Drinking Water Targets Identified		
PROJECT PHASE:	Preliminary Assessment		
DRAWN BY: JV	3/4/14	BASEMAP DATE:	2012
CHECKED BY: JV	3/4/14	Figure 3	



Kansas Department of Health and Environment

SITE: **Standard Products/West Kellogg**

TITLE: **Standard Products/West Kellogg Site Analytical Results**

PROJECT PHASE:			Preliminary Assessment	
DRAWN BY:	JV	3/7/14	BASEMAP DATE:	2012
CHECKED BY:	JV	3/7/14	**Figure 4**	

9.2 Site Photos

Photo # 1

Viewing Direction: W

Caption:

Property at 131 N. Socora.

Photo # 2

Viewing Direction: E

Caption:

Property at 142 N. Evergreen.

Photo # 3

Viewing Direction: W

Caption:

Property at 143 N. Evergreen.

Photo # 4

Viewing Direction: W

Caption:

Property at 241 N. Robin.

STANDARD PRODUCTS/WEST KELLOGG **C2-087-72515**

Photo # 5

Viewing Direction: W

Caption:

Property at 261 N. Robin.

9.3 Analytical Data

Kansas Department of Health and Environment
Health and Environmental Laboratories

Kansas Health & Environmental Laboratories
6810 SW Dwight Street
Topeka, KS 66620
Phone (785) 296-1620
Fax (785) 296-1641

ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C2-087-72515
Location Desc: Standard Products-West Kellogg

Collector: Mike LaBuda

Lab ID: **64737**
Sample ID: **Monroe Residence** 131 N. Socora
Description

Matrix: Water
Date Collected: 2/19/2014 14:15
Date Received: 2/21/2014 13:34

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
Volatiles by EPA 8260										
Analysis Desc: EPA 8260			Preparation Method: EPA 8260							
			Analytical Method: EPA 8260							
Trichlorofluoromethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Chloroform	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
MTBE	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Bromochloromethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
cis-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
trans-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,1,1,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,2,3-Trichloropropane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
n-Propylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
p-Isopropyltoluene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
2-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
4-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Hexachlorobutadiene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,2,3-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,2-Dibromo-3-chloropropane	<0.02	ug/L	0.02	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,3,5-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Dichlorodifluoromethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
tert-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,2,4-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
n-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Bromobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
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Dibromomethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Naphthalene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Chloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Bromomethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Vinyl Chloride	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Isopropylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Dibromochloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Bromodichloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Chloromethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,1,2,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Bromoform (THM)	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		

Report Date: Friday, March 07, 2014 6:01:34 PM
Report ID: 129777 - 357249

CERTIFICATE OF ANALYSIS

Kansas
Department of Health
and Environment
Health and Environmental Laboratories

Kansas Health & Environmental Laboratories
6810 SW Dwight Street
Topeka, KS 66620
Phone (785) 296-1620
Fax (785) 296-1641

ANALYTICAL RESULTS

Submitter: BER Remedial Section

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1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
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Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
1,3-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,1-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
sec-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
2,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,1-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,1-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
trans 1,2-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
cis 1,2-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,1,1-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Carbon tetrachloride	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Benzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,2-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Trichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Toluene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Tetrachloroethylene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,1,2-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Chlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Ethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
m,p-Xylene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
o-Xylene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Xylene	<1	ug/L	1	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Styrene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,4-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,2-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,2,4-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Ethylene Dibromide	<0.01	ug/L	0.01	1	2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
1,2-Dichlorobenzene-d4 (S)					2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
4-Bromofluorobenzene (S)					2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		
Fluorobenzene (S)					2/27/2014 00:17	MJA	2/27/2014 00:17	MJA		

Report Date: Friday, March 07, 2014 6:01:35 PM
Report ID: 129777 - 357249

CERTIFICATE OF ANALYSIS

Kansas
Department of Health
and Environment
Health and Environmental Laboratories

Kansas Health & Environmental Laboratories
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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C2-087-72515
Collector: Mike LaBuda
Location Desc: Standard Products-West Kellogg

Lab ID: **64739**
Sample ID: **Stover Residence** 142 N Evergreen Lane
Description

Matrix: Water
Date Collected: 2/19/2014 16:55
Date Received: 2/21/2014 13:34

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
Volatiles by EPA 8260										
Analysis Desc: EPA 8260			Preparation Method: EPA 8260							
			Analytical Method: EPA 8260							
Trichlorofluoromethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Chloroform	0.9257	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
MTBE	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Bromochloromethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
cis-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
trans-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,1,1,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,2,3-Trichloropropane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
n-Propylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
p-Isopropyltoluene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
2-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
4-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Hexachlorobutadiene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,2,3-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,2-Dibromo-3-chloropropane	<0.02	ug/L	0.02	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,3,5-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Dichlorodifluoromethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
tert-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,2,4-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
n-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Bromobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,3-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Dibromomethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Naphthalene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Chloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Bromomethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Vinyl Chloride	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Isopropylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Dibromochloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Bromodichloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Chloromethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,1,2,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Bromoform (THM)	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		

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Report ID: 129779 - 357262

CERTIFICATE OF ANALYSIS

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Health and Environmental Laboratories

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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C2-087-72515
Location Desc: Standard Products-West Kellogg

Collector: Mike LaBuda

Lab ID: **64739**
Sample ID: **Stover Residence**
Description

Matrix: Water
Date Collected: 2/19/2014 16:55
Date Received: 2/21/2014 13:34

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
1,3-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,1-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
sec-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
2,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,1-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,1-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
trans 1,2-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
cis 1,2-Dichloroethylene	0.88994	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,1,1-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Carbon tetrachloride	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Benzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,2-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Trichloroethylene	1.03064	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Toluene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Tetrachloroethylene	182.4208	ug/L	10	20	3/4/2014 14:40	MJA	3/4/2014 14:40	MJA		
1,1,2-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Chlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Ethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
m,p-Xylene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
o-Xylene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Xylene	<1	ug/L	1	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Styrene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,4-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,2-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,2,4-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Ethylene Dibromide	<0.01	ug/L	0.01	1	2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,2-Dichlorobenzene-d4 (S)					2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
1,2-Dichlorobenzene-d4 (S)					3/4/2014 14:40	MJA	3/4/2014 14:40	MJA		
4-Bromofluorobenzene (S)					2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
4-Bromofluorobenzene (S)					3/4/2014 14:40	MJA	3/4/2014 14:40	MJA		
Fluorobenzene (S)					2/27/2014 01:26	MJA	2/27/2014 01:26	MJA		
Fluorobenzene (S)					3/4/2014 14:40	MJA	3/4/2014 14:40	MJA		

Report Date: Friday, March 07, 2014 6:01:45 PM
Report ID: 129779 - 357262

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C2-087-72515
Collector: Mike LaBuda
Location Desc: Standard Products-West Kellogg

Lab ID: **64739**
Sample ID: **Stover Residence**
Description

Matrix: Water
Date Collected: 2/19/2014 16:55
Date Received: 2/21/2014 13:34

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt

Report Date: Friday, March 07, 2014 6:01:46 PM
Report ID: 129779 - 357262

CERTIFICATE OF ANALYSIS

Kansas
Department of Health
and Environment
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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C2-087-72515
Location Desc: Standard Products-West Kellogg

Collector: Mike LaBuda

Lab ID: **64738**
Sample ID: **Anderson Residence** 143 N. Evergreen Lane
Description

Matrix: Water
Date Collected: 2/19/2014 16:30
Date Received: 2/21/2014 13:34

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
Volatiles by EPA 8260										
Analysis Desc: EPA 8260			Preparation Method: EPA 8260							
			Analytical Method: EPA 8260							
Trichlorofluoromethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Chloroform	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
MTBE	1.74121	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Bromochloromethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
cis-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
trans-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,1,1,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,2,3-Trichloropropane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
n-Propylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
p-Isopropyltoluene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
2-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
4-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Hexachlorobutadiene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,2,3-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,2-Dibromo-3-chloropropane	<0.02	ug/L	0.02	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,3,5-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Dichlorodifluoromethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
tert-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,2,4-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
n-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Bromobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,3-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Dibromomethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Naphthalene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Chloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Bromomethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Vinyl Chloride	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Isopropylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Dibromochloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Bromodichloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Chloromethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,1,2,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Bromoform (THM)	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		

Report Date: Friday, March 07, 2014 6:01:34 PM
Report ID: 129778 - 357260

CERTIFICATE OF ANALYSIS

Kansas Department of Health and Environment
Health and Environmental Laboratories

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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C2-087-72515
Location Desc: Standard Products-West Kellogg

Collector: Mike LaBuda

Lab ID: **64738**
Sample ID: **Anderson Residence**
Description

Matrix: Water
Date Collected: 2/19/2014 16:30
Date Received: 2/21/2014 13:34

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
1,3-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,1-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
sec-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
2,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,1-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,1-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
trans 1,2-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
cis 1,2-Dichloroethylene	19.02373	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,1,1-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Carbon tetrachloride	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Benzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,2-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Trichloroethylene	19.28374	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Toluene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Tetrachloroethylene	554.4126	ug/L	10	20	3/4/2014 14:17	MJA	3/4/2014 14:17	MJA		
1,1,2-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Chlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Ethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
m,p-Xylene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
o-Xylene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Xylene	<1	ug/L	1	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Styrene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,4-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,2-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,2,4-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Ethylene Dibromide	<0.01	ug/L	0.01	1	2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,2-Dichlorobenzene-d4 (S)					2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
1,2-Dichlorobenzene-d4 (S)					3/4/2014 14:17	MJA	3/4/2014 14:17	MJA		
4-Bromofluorobenzene (S)					2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
4-Bromofluorobenzene (S)					3/4/2014 14:17	MJA	3/4/2014 14:17	MJA		
Fluorobenzene (S)					2/27/2014 00:40	MJA	2/27/2014 00:40	MJA		
Fluorobenzene (S)					3/4/2014 14:17	MJA	3/4/2014 14:17	MJA		

Report Date: Friday, March 07, 2014 6:01:35 PM
Report ID: 129778 - 357260

Kansas Department of Health and Environment
Health and Environmental Laboratories

Kansas Health & Environmental Laboratories
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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C2-087-72515
Collector: Mike LaBuda
Location Desc: Standard Products-West Kellogg

Lab ID:	**64738**	Matrix:	Water
Sample ID:	**Anderson Residence**	Date Collected:	2/19/2014 16:30
Description		Date Received:	2/21/2014 13:34

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt

Report Date: Friday, March 07, 2014 6:01:35 PM
Report ID: 129778 - 357260

CERTIFICATE OF ANALYSIS

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Health and Environmental Laboratories

Kansas Health & Environmental Laboratories
6810 SW Dwight Street
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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Collector: Kyle Parker

Location Desc: C2-087-72515

Lab ID: **67066**
Sample ID: **261 N Robin**
Description

Matrix: Water
Date Collected: 2/25/2014 13:43
Date Received: 2/26/2014 15:33

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
Volatiles by EPA 8260										
Analysis Desc: EPA 8260			Preparation Method: EPA 8260							
			Analytical Method: EPA 8260							
Trichlorofluoromethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Chloroform	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
MTBE	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Bromochloromethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
cis-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
trans-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,1,1,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,2,3-Trichloropropane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
n-Propylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
p-Isopropyltoluene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
2-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
4-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Hexachlorobutadiene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,2,3-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,2-Dibromo-3-chloropropane	<0.02	ug/L	0.02	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,3,5-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Dichlorodifluoromethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
tert-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,2,4-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
n-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Bromobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,3-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Dibromomethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Naphthalene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Chloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Bromomethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Vinyl Chloride	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Isopropylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Dibromochloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Bromodichloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Chloromethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,1,2,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Bromoform (THM)	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		

Report Date: Friday, March 07, 2014 6:01:59 PM
Report ID: 131740 - 357256

CERTIFICATE OF ANALYSIS

Kansas Department of Health and Environment
Health and Environmental Laboratories

Kansas Health & Environmental Laboratories
6810 SW Dwight Street
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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Collector: Kyle Parker

Location Desc: C2-087-72515

Lab ID: **67066**
Sample ID: **261 N Robin**
Description

Matrix: Water
Date Collected: 2/25/2014 13:43
Date Received: 2/26/2014 15:33

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
1,3-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,1-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
sec-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
2,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,1-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,1-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
trans 1,2-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
cis 1,2-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,1,1-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Carbon tetrachloride	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Benzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,2-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Trichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Toluene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Tetrachloroethylene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,1,2-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Chlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Ethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
m,p-Xylene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
o-Xylene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Xylene	<1	ug/L	1	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Styrene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,4-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,2-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,2,4-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Ethylene Dibromide	<0.01	ug/L	0.01	1	2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
1,2-Dichlorobenzene-d4 (S)					2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
4-Bromofluorobenzene (S)					2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		
Fluorobenzene (S)					2/27/2014 02:36	MJA	2/27/2014 02:36	MJA		

Report Date: Friday, March 07, 2014 6:02:04 PM
Report ID: 131740 - 357256

CERTIFICATE OF ANALYSIS

Kansas
Department of Health
and Environment
Health and Environmental Laboratories

Kansas Health & Environmental Laboratories
6810 SW Dwight Street
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Phone (785) 296-1620
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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C2-087-72515
Location Desc: Standard Products-West Kellogg

Collector: Kyle Parker

Lab ID: **67064**
Sample ID: **Nibarger** 241 N Robin Rd
Description

Matrix: Water
Date Collected: 2/25/2014 13:58
Date Received: 2/26/2014 15:33

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
Volatiles by EPA 8260										
Analysis Desc: EPA 8260			Preparation Method: EPA 8260							
			Analytical Method: EPA 8260							
Trichlorofluoromethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Chloroform	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
MTBE	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Bromochloromethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
cis-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
trans-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,1,1,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,2,3-Trichloropropane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
n-Propylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
p-Isopropyltoluene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
2-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
4-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Hexachlorobutadiene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,2,3-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,2-Dibromo-3-chloropropane	<0.02	ug/L	0.02	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,3,5-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Dichlorodifluoromethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
tert-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,2,4-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
n-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Bromobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,3-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Dibromomethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Naphthalene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Chloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Bromomethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Vinyl Chloride	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Isopropylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Dibromochloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Bromodichloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Chloromethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,1,2,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Bromoform (THM)	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		

Report Date: Friday, March 07, 2014 6:01:49 PM
Report ID: 131738 - 357252

CERTIFICATE OF ANALYSIS

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and Environment
Health and Environmental Laboratories

Kansas Health & Environmental Laboratories
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ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C2-087-72515
Location Desc: Standard Products-West Kellogg

Collector: Kyle Parker

Lab ID: **67064**
Sample ID: **Nibarger**
Description

Matrix: Water
Date Collected: 2/25/2014 13:58
Date Received: 2/26/2014 15:33

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
1,3-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,1-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
sec-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
2,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,1-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,1-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
trans 1,2-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
cis 1,2-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,1,1-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Carbon tetrachloride	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Benzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,2-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Trichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Toluene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Tetrachloroethylene	8.03489	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,1,2-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Chlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Ethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
m,p-Xylene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
o-Xylene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Xylene	<1	ug/L	1	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Styrene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,4-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,2-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,2,4-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Ethylene Dibromide	<0.01	ug/L	0.01	1	2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
1,2-Dichlorobenzene-d4 (S)					2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
4-Bromofluorobenzene (S)					2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		
Fluorobenzene (S)					2/27/2014 01:50	MJA	2/27/2014 01:50	MJA		

Report Date: Friday, March 07, 2014 6:01:55 PM
Report ID: 131738 - 357252

CERTIFICATE OF ANALYSIS

C2-087-72515

Kansas Health & Environmental Laboratories
6810 SW Dwight Street
Topeka, KS 66620
Phone (785) 296-1620
Fax (785) 296-1641

Kansas
Department of Health and Environment
Health and Environmental Laboratories

ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C2-087-72515
Location Desc: Standard Products-West Kellogg

Collector: Kyle Parker

Lab ID: **67065**
Sample ID: **Brown** 215 S. Socora
Description

Matrix: Water
Date Collected: 2/25/2014 14:17
Date Received: 2/26/2014 15:33

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
Volatiles by EPA 8260										
Analysis Desc: EPA 8260			Preparation Method: EPA 8260							
			Analytical Method: EPA 8260							
Trichlorofluoromethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Chloroform	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
MTBE	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Bromochloromethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
cis-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
trans-1,3-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,1,1,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,2,3-Trichloropropane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
n-Propylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
p-Isopropyltoluene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
2-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
4-Chlorotoluene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Hexachlorobutadiene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,2,3-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,2-Dibromo-3-chloropropane	<0.02	ug/L	0.02	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,3,5-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Dichlorodifluoromethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
tert-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,2,4-Trimethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
n-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Bromobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,3-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Dibromomethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Naphthalene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Chloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Bromomethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Vinyl Chloride	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Isopropylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Dibromochloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Bromodichloromethane (THM)	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Chloromethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,1,2,2-Tetrachloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Bromoform (THM)	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		

Report Date: Friday, March 07, 2014 6:01:52 PM
Report ID: 131739 - 357254

BER SCANNED
MAR 2 0 2014

MAR 2 0 2014
BUREAU OF ENVIRONMENTAL REMEDIATION

CERTIFICATE OF ANALYSIS

Kansas Department of Health and Environment
Health and Environmental Laboratories

Kansas Health & Environmental Laboratories
6810 SW Dwight Street
Topeka, KS 66620
Phone (785) 296-1620
Fax (785) 296-1641

ANALYTICAL RESULTS

Submitter: BER Remedial Section

Report to: Rick Bean
BER Remedial Section
1000 SW Jackson Suite 410
Topeka, KS 66612

Client ID: BER001
State ID:

Location Code: C2-087-72515
Collector: Kyle Parker
Location Desc: Standard Products-West Kellogg

Lab ID: **67065**
Sample ID: **Brown**
Description

Matrix: Water
Date Collected: 2/25/2014 14:17
Date Received: 2/26/2014 15:33

Parameters	Results	Units	RDL	DF	Prep	By	Analyzed	By	Qual	RegLmt
1,3-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,1-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
sec-Butylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
2,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,1-Dichloropropene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,1-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
trans 1,2-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
cis 1,2-Dichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,1,1-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Carbon tetrachloride	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Benzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,2-Dichloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Trichloroethylene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,2-Dichloropropane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Toluene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Tetrachloroethylene	1.52776	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,1,2-Trichloroethane	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Chlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Ethylbenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
m,p-Xylene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
o-Xylene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Xylene	<1	ug/L	1	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Styrene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,4-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,2-Dichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,2,4-Trichlorobenzene	<0.5	ug/L	0.5	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Ethylene Dibromide	<0.01	ug/L	0.01	1	2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
1,2-Dichlorobenzene-d4 (S)					2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
4-Bromofluorobenzene (S)					2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		
Fluorobenzene (S)					2/27/2014 02:13	MJA	2/27/2014 02:13	MJA		

Report Date: Friday, March 07, 2014 6:01:55 PM
Report ID: 131739 - 357254

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9.4 Field Notes

Standard Products/West Kellogg Site

Address	Not Home	No Well	Has Well	Comments
220 S Evergreen Court	✓		✓	L & G
224 S Evergreen Court	✓		✓	Possible Whole House
228 S Evergreen Court	✓			
100 S Evergreen Lane	✓		✓	
110 S Evergreen Lane	✓		✓	
115 N Evergreen Lane	✓			
116 N Evergreen Lane	✓			
126 S Evergreen Lane			✓	Road 5th
127 N Evergreen Lane	✓			
128 N Evergreen Lane	Abandoned			
140 S Evergreen Lane	✓			
142 N Evergreen Lane			✓	Sample!
143 N Evergreen Lane			✓	Sampled
156 S Evergreen Lane	✓		✓	2 well House-Tyler
157 N Evergreen Lane	✓			
158 N Evergreen Lane	✓			
200 N Evergreen Lane	✓			
201 N Evergreen Lane	✓			Permission Given
221 N Evergreen Lane	✓			
222 N Evergreen Lane	✓			
241 N Evergreen Lane	✓			
259 N Evergreen Lane	✓			
321 S Floyd St			✓	Declined Anti-gov't
337 S Floyd St	✓		✓	
352 S Floyd St	✓			
355 S Floyd St	✓			
364 S Floyd St			✓	L & G
365 S Floyd St			✓	L & G
371 S Floyd St			✓	L & G
374 S Floyd St			✓	L & G
384 S Floyd St	✓			
400 S Floyd St	✓		✓	L & G
8101 W Maple St	✓			
8116 W Maple St	✓			
8123 W Maple St	✓			
8201 W Maple St	✓			
8212 W Maple St	✓			
8220 W Maple St	✓			

Address	Not Home	No Well	Has Well	Comments
8227 W Maple St	✓			
8306 W Maple St	✓		✓	
160 N Robin Rd	✓		✓	
212 N Robin Rd	✓			
227 N Robin Rd	✓			
228 N Robin Rd	✓		✓	
241 N Robin Rd	✓			
242 N Robin Rd	✓			
260 N Robin Rd	✓			
261 N Robin Rd			✓	2 wells L & G
325 S Socoa Dr	✓			
103 S Socora Dr	✓		✓	2 in front yard
109 S Socora Dr	✓			
111 N Socora Dr	✓			
135 S Socora Dr	✓			
155 S Socora Dr	✓ NO HOUSE			
207 S Socora Dr	✓	✓		
215 S Socora Dr		2		would not answer
233 S Socora Dr	✓			
320 S Socora Dr	✓			
330 S Socora Dr	✓			
340 S Socora Dr	✓			
400 S Topaz Lane	✓			
401 S Topaz Lane	✓			
420 S Topaz Lane	✓			
357 N Tyler Rd	✓	✓		
403 N Tyler Rd	✓			
415 N Tyler Rd	✓			
427 N Tyler Rd	✓			
531 N Tyler Rd	✓			
535 N Tyler Rd	✓			
545 N Tyler Rd	✓			
8020 W University Ave	✓			
365 S Woodchuck Lane	✓			
369 S Woodchuck Lane	✓			
375 S Woodchuck Lane	✓			
~~411~~ S Woodchuck Lane	✓			511
525 S Woodchuck Lane	✓			

Notes:

Most of Secora N. of Maple & Evergreen not on city water and have wells in front yard

N. Robin - could see no wells

N. Tyler - could see no wells

2/19/14

Glen Anderson · 143 N. Evergreen Lane
Wichita, KS 67212 · [redacted]
Sample collected 1630 hrs from outside faucet well supplies house but is put thru water softening system

George Stover 142 N. Evergreen Lane
Wichita, Ks 67212 [redacted]
Sample collected 1655 from outside faucet on N. side of house. Supplies whole house. (Having whole house filtration installed tomorrow (2/20/14)

2/20/14 - Talked to Trey Trigg, assistant principal of Wilbur Middle School. He saw no reason we could not probe in N.W. corner area. He will talk to Principal. Told him we would be down in Mar. or April and will contact him.

Photos 1 - Maple & Secora facing West - Note electric boxes on left
2- " " " " East
3- Looking N from N. Robin - Intersec. N. Robin & 2nd
4 - Looking W at intersec - N. Robin & 2nd
5 - Lookin E " " " "

~~207 S. Secora - owner - Tall 2 story east side - 100 N. blk - Red Brick Wrought Iron fence~~

131 N. Secora - Monroe Residence. Stated entire blk north of Maple, with exception of 1st several houses, were on wells. No city water.
2 VOC collected at 1415 hrs from outside faucet on south side of house

156 S. Evergreen - 2 wells - Schwartz Residence

8947 Central is now a Dollar General Store

C2-087-72515

Division of Environment
Curtis State Office Building
1000 SW Jackson St., Suite 400
Topeka, KS 66612-1367

Kansas
Department of Health & Environment

Phone: 785-296-1535
Fax: 785-296-8464
www.kdheks.gov

Robert Moser, MD, Secretary

Sam Brownback, Governor

April 24, 2014

Mr. Paul Roemerman
U.S. EPA Region VII, Superfund Division
11201 Renner Boulevard
Lenexa, Kansas 66219

RE: Preliminary Assessment and QuickScore for the Standard Products/West Kellogg Site, Wichita, Sedgwick County, Kansas
KDHE I.D. # C2-087-72515
EPA I.D. # KSN000706571

Dear Mr. Roemerman:

The Kansas of Department of Health and Environment (KDHE) has completed the Preliminary Assessment (PA) of the Standard Products/West Kellogg site in Wichita, Sedgwick County, Kansas. Since multiple domestic wells were identified in the PA with tetrachloroethylene (PCE) above Maximum Contaminant Levels, KDHE has already initiated the Site Inspection (SI) to further identify potentially impacted domestic wells, identify a PCE source area, and evaluate response options. At this time KDHE is recommending the PA be entered with a high-priority qualifier for the SI. If you have any questions, please feel free to contact me at (785) 296-8065.

Sincerely,

Randolph L. Brown, P.G.
Unit Chief, Site Assessment Unit
Remedial Section
Bureau of Environmental Remediation

rlb/Attachments

c: Jon Vopata -> Site File -> **C2-087-72515**
Site Decision Files

REMEDIAL SITE ASSESSMENT DECISION - EPA REGION 7

SITE NAME: Standard Products/West Kellogg KDHE ID #: C2-087-72515 EPA ID#: KSN000706571

Alias/Alternate Site Names:

City: Washington County: Sedgwick State: Kansas

Refer to Report Dated: March, 2014 Report type: Preliminary Assessment (PA)

Report developed by: Kansas Department of Health and Environment/Bureau of Environmental Remediation (KDHE/BER)

Project Manager: Jon Vopata, KDHE/BER

DECISION: The PA has identified several domestic wells with tetrachloroethylene (PCE) above Maximum Contaminant Levels (MCLs). A higher-priority Site Inspection (SI) is recommended to further identify additional domestic wells that may be impacted and a source area for the contamination.

DISCUSSION/RATIONALE: The Standard Products property is located at 7920 West Kellogg in Wichita, Sedgwick County, Kansas. Standard Products historically operated at multiple sites in Wichita, and of these two have documented radium-226 contamination. Three Standard Product properties were investigated by KDHE through Unified Focused Assessments (UFAs). National Cash Register (NCR) was a parent company of Standard Products and operated at the West Kellogg location between 1970 and 1998. The West Kellogg facility does not appear to have held a Kansas Radioactive Materials License. Soil samples collected during the UFA at the West Kellogg property, approved by KDHE in January, 2010, indicated no elevated levels of heavy metals above residential RSK levels or radium-226 above the screening level of 5 picoCuries per gram plus background in soils or the screening level of 5 picoCuries per liter for groundwater samples. PCE was detected in all three groundwater samples at concentrations ranging between 1.8 and 8.1 µg/L. The maximum detection of 8.1 µg/L was identified in sample SP-2, assumed to be on the upgradient side of the property.

The UFA portion of the State Response Grant was eliminated in 2010-2011. KDHE reviewed completed UFAs to determine if additional site assessment was appropriate, and in 2013 KDHE conducted a Site Evaluation (SE) of the Standard Products/West Kellogg site. During the SE, an additional seven direct-push groundwater samples were collected in the assumed upgradient direction from the Standard Products/West Kellogg property investigated during the UFA. PCE was detected at a maximum concentration of 7.4 µg/L, above its MCL, in SE-5 approximately 1,500 feet upgradient of the UFA SP-2 sample location. This sample location is within a residential area with no apparent source area for PCE nearby. A PA was recommended upon completion of the SE.

During the PA, a door-to-door search was conducted upon identifying an area in January 2014 that had apparently not been historically connected to the City of Wichita Public Water Supply. Six domestic wells were sampled in February, 2014. Three of these wells, Anderson, Stover, and Nibarger, indicated PCE above the MCL. Three of these wells, the Monroe, Emprise Bank Trust, and Brown wells, did not indicate PCE above the MCL. The maximum detection was 554 µg/L in the Anderson well.

Since multiple domestic wells have been identified as impacted above the MCL for PCE, a higher-priority SI is recommended to identify additional potentially impacted domestic wells, determine a source area, and evaluate other KDHE or Federal programmatic options for the impacted domestic wells.

Report Reviewed and
Approved by: Randolph L. Brown, P.G., KDHE/BER Signature: _____ Date: 03/24/2014

Site Decision Concurrence
Made by: Paul Roemerman, Kansas SAM, EPA Signature: _____ Date: _____

PRELIMINARY ASSESSMENT (PA) CHECKLIST

This checklist can be used to help determine if additional response beyond the PA is warranted. This checklist should summarize the rationale for the decision if additional assessment or response is required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer: **Jon Vopata / Environmental Scientist** **4/24/14**
Name/Title Date

1000 SW Jackson Suite 410 Topeka, Kansas 66612 785-296-8063
Address Phone
Jvopata@kdheks.gov
E-Mail Address

Site Name and CERCLIS I.D.: Standard Products/West Kellogg KSN000706571

Previous Names or Alias:
State I.D.: C2-087-72515
Site Location: 7920 W Kellogg Avenue, Wichita, Kansas 67209

Latitude: 37.673344 **Longitude:** -97.433751

Describe the release (or potential release) and its probable nature: Tetrachloroethylene (PCE) was detected in three private drinking water wells at concentrations exceeding KDHE Tier 2 RSK levels and MCLs. Trichloroethylene (TCE) was detected in two private drinking water wells at concentrations exceeding KDHE Tier 2 RSK levels and MCLs. Residential properties in the vicinity of the site rely on domestic wells for drinking water. It is likely there are additional drinking water wells impacted with PCE and/or TCE. The source of contamination was not identified during the PA.

Part 1 - Superfund Eligibility Evaluation	**YES**	**NO**
1. Is the site currently in CERCLIS or an "alias" of another site?	X	
2. Is the site being addressed by some other remedial program (Federal, State, or Tribal)?		X
3. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (e.g., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?		X
4. Are the hazardous substances potentially released at the site excluded by policy considerations (i.e., deferred to RCRA corrective action)?		X
5. Is there sufficient documentation to demonstrate that no potential for a release that could cause adverse environmental or human health impacts exists (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, previous HRS score determined, or an EPA approved risk assessment completed)?		X

Please explain all "yes" answer(s). The site is currently in CERCLIS.

****** CONFIDENTIAL ******
******PRE-DECISIONAL DOCUMENT ******
****** SUMMARY SCORESHEET ******
****** FOR COMPUTING PROJECTED HRS SCORE ******

****** Do Not Cite or Quote ******

Site Name: Standard Products/West Kellogg

Region: Region 7

Scenario Name: Preliminary Assessment

City, County, State: Wichita/Sedgwick, Kansas

Evaluator: Jon Vopata

EPA ID#: KSN000706571

Date: 03/07/2014

Lat/Long: 37:40:24,-97:26:2

Congressional District: 4

This Scoresheet is for: PA

Scenario Name: Preliminary Assessment

Description:

	S pathway	S^2 pathway
Ground Water Migration Pathway Score (S_{gw})	100.0	10000.0
Surface Water Migration Pathway Score (S_{sw})	0.0	0.0
Soil Exposure Pathway Score (S_s)	0.0	0.0
Air Migration Score (S_a)	0.0	0.0
$S^2_{gw} + S^2_{sw} + S^2_s + S^2_a$		10000.0
$(S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)/4$		2500.0
/ $(S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)/4$		50.0

Pathways not assigned a score (explain):

TABLE 3-1 --GROUND WATER MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned	
Aquifer Evaluated: Alluvial Aquifer			
Likelihood of Release to an Aquifer:			
1. Observed Release	550	550.0	
2. Potential to Release:			
2a. Containment	10	0.0	
2b. Net Precipitation	10	0.0	
2c. Depth to Aquifer	5	1.0	
2d. Travel Time	35	1.0	
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500	0.0	
3. Likelihood of Release (higher of lines 1 and 2e)	550		550.0
Waste Characteristics:			
4. Toxicity/Mobility	(a)	1000.0	
5. Hazardous Waste Quantity	(a)	1000000.0	
6. Waste Characteristics	100		100.0
Targets:			
7. Nearest Well	(b)	50.0	
8. Population:			
8a. Level I Concentrations	(b)	100.0	
8b. Level II Concentrations	(b)	4.0	
8c. Potential Contamination	(b)	573.6	
8d. Population (lines 8a + 8b + 8c)	(b)	677.6	
9. Resources	5	5.0	
10. Wellhead Protection Area	20	0.0	
11. Targets (lines 7 + 8d + 9 + 10)	(b)		732.6
Ground Water Migration Score for an Aquifer:			
12. Aquifer Score [(lines 3 x 6 x 11)/82,5000][c]	100		100.0
Ground Water Migration Pathway Score:			
13. Pathway Score (S_{gw}), (highest value from line 12 for all aquifers evaluated)[c]	100		0.0

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] Do not round to nearest integer

TABLE 5-1 --SOIL EXPOSURE PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned	
Likelihood of Exposure:			
1. Likelihood of Exposure	550		
Waste Characteristics:			
2. Toxicity	(a)	0.0	
3. Hazardous Waste Quantity	(a)		
4. Waste Characteristics	100		0.0
Targets:			
5. Resident Individual	50		
6. Resident Population:			
6a. Level I Concentrations	(b)	0	
6b. Level II Concentrations	(b)		
6c. Population (lines 6a + 6b)	(b)		
7. Workers	15	0.0	
8. Resources	5		
9. Terrestrial Sensitive Environments	(c)		
10. Targets (lines 5 + 6c + 7 + 8 + 9)	(b)		0.0
Resident Population Threat Score			
11. Resident Population Threat Score (lines 1 x 4 x 10)	(b)		0.0
Nearby Population Threat			
Likelihood of Exposure:			
12. Attractiveness/Accessibility	100	0.0	
13. Area of Contamination	100	5.0	
14. Likelihood of Exposure	500		0.0
Waste Characteristics:			
15. Toxicity	(a)	0.0	
16. Hazardous Waste Quantity	(a)	0.0	
17. Waste Characteristics	100		0.0
Targets:			
18. Nearby Individual	1	0.0	
19. Population Within 1 Mile	(b)		
20. Targets (lines 18 + 19)	(b)		
Nearby Population Threat Score			
21. Nearby Population Threat (lines 14 x 17 x 20)	(b)		0.0
Soil Exposure Pathway Score:			
22. Pathway Score[d] (S_s), [lines (11+21)/82,500, subject to max of 100]	100		0.0

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] No specific maximum value applies to factor. However, pathway score based solely on terrestrial sensitive environments is limited to a maximum of 60
[d] Do not round to nearest integer

TABLE 6-1 --AIR MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Likelihood of Release:		
1. Observed Release	550	
2. Potential to Release:		
2a. Gas Potential to Release	500	
2b. Particulate Potential to Release	500	
2c. Potential to Release (higher of lines 2a and 2b)	500	
3. Likelihood of Release (higher of lines 1 and 2c)	550	
Waste Characteristics:		
4. Toxicity/Mobility	(a)	
5. Hazardous Waste Quantity	(a)	
6. Waste Characteristics	100	
Targets:		
7. Nearest Individual	50	
8. Population:		
8a. Level I Concentrations	(b)	
8b. Level II Concentrations	(b)	
8c. Potential Contamination	(c)	
8d. Population (lines 8a + 8b + 8c)	(b)	
9. Resources	5	
10. Sensitive Environments:		
10a. Actual Contamination	(c)	
10b. Potential Contamination	(c)	
10c. Sensitive Environments (lines 10a + 10b)	(c)	
11. Targets (lines 7 + 8d + 9 + 10c)	(b)	
Air Migration Pathway Score:		
12. Pathway Score (S_a) [(lines 3 x 6 x 11)/82,500][d]	100	

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] No specific maximum value applies to factor. However, pathway score based solely on sensitive environments is limited to a maximum of 60.
[d] Do not round to nearest integer